

123103

P24734.P01

UTILITY
PATENT APPLICATION
TRANSMITTAL

Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

P24734

Total Pages

Inventor(s) or Application Identifier:

Jong-Hwa LEE, Wan-Sub KIM, and Chang-Won KANG

Title: METHOD FOR MEASURING THE ABSOLUTE STEERING
ANGLE OF STEERING SHAFT FOR VEHICLE

ADDRESS TO:

Commissioner for Patents
Mail Stop Patent Application
PO Box 1450
Alexandria, VA 22313-1450

APPLICATION ELEMENTS

ACCOMPANYING APPLICATION PARTS

1. ☒ Fee Transmittal Form
(Submit an original, and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.
- a. ☐ Small Entity
Statement(s)
3. ☒ Specification [Total Pages 14]
(preferred arrangement set forth below)
- Descriptive title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table, or a computer
program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure
4. ☒ Drawing(s) (35 USC 113) [Total Sheets 3]
5. ☒ Oath or Declaration [Total Pages 4]
- a. ☒ Newly executed (original or copy) ☐ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 20 completed)
[Note Box 6 below]
- i. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).
6. ☐ Incorporation By Reference (useable if Box 5b is checked)
The entire disclosure of the prior application, from which a
copy of the oath or declaration is supplied under Box 5b, is
considered as being part of the disclosure of the
accompanying application and is hereby incorporated by
reference therein.
7. ☐ Application Data Sheet. See 37 CFR 1.76
8. ☐ CD-Rom or CD-R in duplicate, large table or Computer
Program (Appendix)

9. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
- a. ☐ Computer Readable Form (CRF)
- b. Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ paper
- c. ☐ Statements verifying identity of above copies
10. ☒ Assignment Papers (cover sheet & document(s))
11. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney
(when there is an assignee)
12. ☐ English Translation Document (if applicable)
13. ☐ Information Disclosure ☐ Copies of IDS Citations
Statement (IDS)/PTO-1449
14. ☒ Preliminary Amendment
15. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
16. ☒ Figure of Drawing to be published: 1
17. ☒ Foreign priority claimed
- a. ☒ Claim of Priority
- b. ☒ Certified Copy of Priority Document(s)
18. ☐ Nonpublication Request under 35 U.S.C. 122 (b) (2) (B) (i).
Applicant must attach form PTO/SB/35 or its equivalent.
19. ☒ Assignee: HYUNDAI MOBIS CO., LTD., of Yongin-shi, Republic of Korea
20. ☐ Other: _____

031088 U.S. PTO
10/748152

21. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 C.F.R. 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior Application No. _____ / _____, filed _____.
Prior application information: Examiner: _____ Group Art Unit: _____Address all future correspondence to **Customer No. 7055** at the present address of:GREENBLUM & BERNSTEIN, P.L.C.
1950 Roland Clarke Place
Reston, VA 20191
(703) 716-119112-31-03
DateWill. E. Zundman Reg. No. 41,568
SignatureBruce H. Bernstein, Reg. No. 29,027
Typed or Printed Name

3281 U.S. PTO

FEE TRANSMITTAL

Complete if Known

Application Number		Not Yet Assigned	
Filing Date		Concurrently Herewith	
First Named Inventor		Jong-Hwa LEE et al.	
Group Art Unit		Unassigned	
Examiner Name		Unassigned	
TOTAL AMOUNT OF PAYMENT		(\$) <u>810.00</u>	
Attorney Docket Number		P24734	

METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)																																																																																																																																																																																																	
1. <input checked="" type="checkbox"/> The U.S. Patent and Trademark Office is hereby authorized to charge indicated fees and credit any overpayments to: Deposit Account Number <u>19-0089</u> Deposit Account Name <u>GREENBLUM & BERNSTEIN, P.L.C.</u> <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17, including any required extension of time fees in any concurrent or future reply requiring a petition for extension of time for its timely submission (37 CFR 1.136(a)(3)) <input type="checkbox"/> Charge the Issue Fee Set in 37 CFR 1.18 at the Mailing of the Notice of Allowance, 37 CFR 1.311(b) <input type="checkbox"/> Applicant Claims Small Entity Status See 37 CFR 1.27.		3. ADDITIONAL FEES <table border="1"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>1051</td> <td>130</td> <td>2051</td> <td>65</td> <td>Surcharge - late filing fee or oath</td> <td></td> </tr> <tr> <td>1052</td> <td>50</td> <td>2052</td> <td>25</td> <td>Surcharge - late provisional filing fee or cover sheet</td> <td></td> </tr> <tr> <td>1053</td> <td>130</td> <td>1053</td> <td>130</td> <td>Non-English specification</td> <td></td> </tr> <tr> <td>1812</td> <td>2,520</td> <td>1812</td> <td>2,520</td> <td>For filing a request for reexamination</td> <td></td> </tr> <tr> <td>1804</td> <td>920*</td> <td>1804</td> <td>920*</td> <td>Requesting publication of SIR</td> <td></td> </tr> <tr> <td>1805</td> <td>1,840*</td> <td>1805</td> <td>1,840*</td> <td>Prior to Examiner action</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Requesting publication of SIR after Examiner action</td> <td></td> </tr> <tr> <td>1251</td> <td>110</td> <td>2251</td> <td>55</td> <td>Extension for response within 1st month</td> <td></td> </tr> <tr> <td>1252</td> <td>420</td> <td>2252</td> <td>210</td> <td>Extension for response within 2nd month</td> <td></td> </tr> <tr> <td>1253</td> <td>950</td> <td>2253</td> <td>475</td> <td>Extension for response within 3rd month</td> <td></td> </tr> <tr> <td>1254</td> <td>1,480</td> <td>2254</td> <td>740</td> <td>Extension for response within 4th month</td> <td></td> </tr> <tr> <td>1255</td> <td>2,010</td> <td>2255</td> <td>1,005</td> <td>Extension for response within 5th month</td> <td></td> </tr> <tr> <td>1401</td> <td>330</td> <td>2401</td> <td>165</td> <td>Notice of Appeal</td> <td></td> </tr> <tr> <td>1402</td> <td>330</td> <td>2402</td> <td>165</td> <td>Filing a brief in support of an appeal</td> <td></td> </tr> <tr> <td>1403</td> <td>290</td> <td>2403</td> <td>145</td> <td>Request for oral hearing</td> <td></td> </tr> <tr> <td>1451</td> <td>1,510</td> <td>1451</td> <td>1,510</td> <td>Petition to institute a public use proceeding</td> <td></td> </tr> <tr> <td>1452</td> <td>110</td> <td>2452</td> <td>55</td> <td>Petition to revive unavoidably abandoned application</td> <td></td> </tr> <tr> <td>1453</td> <td>1,330</td> <td>2453</td> <td>665</td> <td>Petition to revive unintentionally abandoned application</td> <td></td> </tr> <tr> <td>1501</td> <td>1,330</td> <td>2501</td> <td>665</td> <td>Utility issue fee (or reissue)</td> <td></td> </tr> <tr> <td>1502</td> <td>480</td> <td>2502</td> <td>240</td> <td>Design issue fee</td> <td></td> </tr> <tr> <td>1503</td> <td>640</td> <td>2503</td> <td>320</td> <td>Plant issue fee</td> <td></td> </tr> <tr> <td>1460</td> <td>130</td> <td>1460</td> <td>130</td> <td>Petitions to the Commissioner</td> <td></td> </tr> <tr> <td>1807</td> <td>50</td> <td>1807</td> <td>50</td> <td>Petitions related to provisional applications</td> <td></td> </tr> <tr> <td>1806</td> <td>180</td> <td>1806</td> <td>180</td> <td>Submission of IDS</td> <td></td> </tr> <tr> <td>8021</td> <td>40</td> <td>8021</td> <td>40</td> <td>Recording each patent assignment per property (times number of properties)</td> <td><u>40.00</u></td> </tr> <tr> <td>1809</td> <td>770</td> <td>2809</td> <td>385</td> <td>Filing a submission after final rejection (37 CFR 1.129(a))</td> <td></td> </tr> <tr> <td>1810</td> <td>770</td> <td>2810</td> <td>385</td> <td>For each additional invention to be examined (37 CFR 1.129(b))</td> <td></td> </tr> <tr> <td>1801</td> <td>770</td> <td>2801</td> <td>385</td> <td>Request for Continued Examination (RCE)</td> <td></td> </tr> <tr> <td>1802</td> <td>900</td> <td>1802</td> <td>900</td> <td>Request for expedited examination of a design application</td> <td></td> </tr> <tr> <td colspan="2">Other fee (specify) _____</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">Other fee (specify) _____</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">SUBTOTAL (3) (\$)</td> <td colspan="2"><u>40.00</u></td> </tr> </tbody> </table>		Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	1051	130	2051	65	Surcharge - late filing fee or oath		1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet		1053	130	1053	130	Non-English specification		1812	2,520	1812	2,520	For filing a request for reexamination		1804	920*	1804	920*	Requesting publication of SIR		1805	1,840*	1805	1,840*	Prior to Examiner action						Requesting publication of SIR after Examiner action		1251	110	2251	55	Extension for response within 1st month		1252	420	2252	210	Extension for response within 2nd month		1253	950	2253	475	Extension for response within 3rd month		1254	1,480	2254	740	Extension for response within 4th month		1255	2,010	2255	1,005	Extension for response within 5th month		1401	330	2401	165	Notice of Appeal		1402	330	2402	165	Filing a brief in support of an appeal		1403	290	2403	145	Request for oral hearing		1451	1,510	1451	1,510	Petition to institute a public use proceeding		1452	110	2452	55	Petition to revive unavoidably abandoned application		1453	1,330	2453	665	Petition to revive unintentionally abandoned application		1501	1,330	2501	665	Utility issue fee (or reissue)		1502	480	2502	240	Design issue fee		1503	640	2503	320	Plant issue fee		1460	130	1460	130	Petitions to the Commissioner		1807	50	1807	50	Petitions related to provisional applications		1806	180	1806	180	Submission of IDS		8021	40	8021	40	Recording each patent assignment per property (times number of properties)	<u>40.00</u>	1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))		1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))		1801	770	2801	385	Request for Continued Examination (RCE)		1802	900	1802	900	Request for expedited examination of a design application		Other fee (specify) _____				Other fee (specify) _____				SUBTOTAL (3) (\$)		<u>40.00</u>	
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																														
1051	130	2051	65	Surcharge - late filing fee or oath																																																																																																																																																																																															
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																																															
1053	130	1053	130	Non-English specification																																																																																																																																																																																															
1812	2,520	1812	2,520	For filing a request for reexamination																																																																																																																																																																																															
1804	920*	1804	920*	Requesting publication of SIR																																																																																																																																																																																															
1805	1,840*	1805	1,840*	Prior to Examiner action																																																																																																																																																																																															
				Requesting publication of SIR after Examiner action																																																																																																																																																																																															
1251	110	2251	55	Extension for response within 1st month																																																																																																																																																																																															
1252	420	2252	210	Extension for response within 2nd month																																																																																																																																																																																															
1253	950	2253	475	Extension for response within 3rd month																																																																																																																																																																																															
1254	1,480	2254	740	Extension for response within 4th month																																																																																																																																																																																															
1255	2,010	2255	1,005	Extension for response within 5th month																																																																																																																																																																																															
1401	330	2401	165	Notice of Appeal																																																																																																																																																																																															
1402	330	2402	165	Filing a brief in support of an appeal																																																																																																																																																																																															
1403	290	2403	145	Request for oral hearing																																																																																																																																																																																															
1451	1,510	1451	1,510	Petition to institute a public use proceeding																																																																																																																																																																																															
1452	110	2452	55	Petition to revive unavoidably abandoned application																																																																																																																																																																																															
1453	1,330	2453	665	Petition to revive unintentionally abandoned application																																																																																																																																																																																															
1501	1,330	2501	665	Utility issue fee (or reissue)																																																																																																																																																																																															
1502	480	2502	240	Design issue fee																																																																																																																																																																																															
1503	640	2503	320	Plant issue fee																																																																																																																																																																																															
1460	130	1460	130	Petitions to the Commissioner																																																																																																																																																																																															
1807	50	1807	50	Petitions related to provisional applications																																																																																																																																																																																															
1806	180	1806	180	Submission of IDS																																																																																																																																																																																															
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	<u>40.00</u>																																																																																																																																																																																														
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																																															
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																																															
1801	770	2801	385	Request for Continued Examination (RCE)																																																																																																																																																																																															
1802	900	1802	900	Request for expedited examination of a design application																																																																																																																																																																																															
Other fee (specify) _____																																																																																																																																																																																																			
Other fee (specify) _____																																																																																																																																																																																																			
SUBTOTAL (3) (\$)		<u>40.00</u>																																																																																																																																																																																																	
1. FILING FEE <table border="1"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>1001</td> <td>770</td> <td>2001</td> <td>385</td> <td>Utility filing fee</td> <td><u>770.00</u></td> </tr> <tr> <td>1002</td> <td>340</td> <td>2002</td> <td>170</td> <td>Design filing fee</td> <td></td> </tr> <tr> <td>1003</td> <td>530</td> <td>2003</td> <td>265</td> <td>Plant filing fee</td> <td></td> </tr> <tr> <td>1004</td> <td>770</td> <td>2004</td> <td>385</td> <td>Reissue filing fee</td> <td></td> </tr> <tr> <td>1005</td> <td>160</td> <td>2005</td> <td>80</td> <td>Provisional filing fee</td> <td></td> </tr> <tr> <td colspan="5">SUBTOTAL (1) (\$)</td> <td><u>770.00</u></td> </tr> </tbody> </table>		Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	1001	770	2001	385	Utility filing fee	<u>770.00</u>	1002	340	2002	170	Design filing fee		1003	530	2003	265	Plant filing fee		1004	770	2004	385	Reissue filing fee		1005	160	2005	80	Provisional filing fee		SUBTOTAL (1) (\$)					<u>770.00</u>	2. CLAIMS <table border="1"> <thead> <tr> <th>Total Claims</th> <th>Extra</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>-20=</td> <td>0 x 18</td> <td>0.00</td> </tr> <tr> <td>1</td> <td>-3=</td> <td>0 x 86</td> <td>0.00</td> </tr> <tr> <td colspan="3">Multiple Dependent Claims 0 x 290</td> <td>0.00</td> </tr> </tbody> </table>		Total Claims	Extra	Fee from below	Fee Paid	5	-20=	0 x 18	0.00	1	-3=	0 x 86	0.00	Multiple Dependent Claims 0 x 290			0.00																																																																																																																																						
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																														
1001	770	2001	385	Utility filing fee	<u>770.00</u>																																																																																																																																																																																														
1002	340	2002	170	Design filing fee																																																																																																																																																																																															
1003	530	2003	265	Plant filing fee																																																																																																																																																																																															
1004	770	2004	385	Reissue filing fee																																																																																																																																																																																															
1005	160	2005	80	Provisional filing fee																																																																																																																																																																																															
SUBTOTAL (1) (\$)					<u>770.00</u>																																																																																																																																																																																														
Total Claims	Extra	Fee from below	Fee Paid																																																																																																																																																																																																
5	-20=	0 x 18	0.00																																																																																																																																																																																																
1	-3=	0 x 86	0.00																																																																																																																																																																																																
Multiple Dependent Claims 0 x 290			0.00																																																																																																																																																																																																
<table border="1"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> </tr> </thead> <tbody> <tr> <td>1202</td> <td>18</td> <td>2202</td> <td>9</td> <td>Claims in excess of 20</td> </tr> <tr> <td>1201</td> <td>86</td> <td>2201</td> <td>43</td> <td>Independent claims in excess of 3</td> </tr> <tr> <td>1203</td> <td>290</td> <td>2203</td> <td>145</td> <td>Multiple dependent claim</td> </tr> <tr> <td>1204</td> <td>86</td> <td>2204</td> <td>43</td> <td>Reissue independent claims over original patent</td> </tr> <tr> <td>1205</td> <td>18</td> <td>2205</td> <td>9</td> <td>Reissue claims in excess of 20 and over original patent</td> </tr> <tr> <td colspan="5">SUBTOTAL (2) (\$)</td> </tr> </tbody> </table>		Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	1202	18	2202	9	Claims in excess of 20	1201	86	2201	43	Independent claims in excess of 3	1203	290	2203	145	Multiple dependent claim	1204	86	2204	43	Reissue independent claims over original patent	1205	18	2205	9	Reissue claims in excess of 20 and over original patent	SUBTOTAL (2) (\$)					*Reduced by Basic Filing Fee paid																																																																																																																																																														
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description																																																																																																																																																																																															
1202	18	2202	9	Claims in excess of 20																																																																																																																																																																																															
1201	86	2201	43	Independent claims in excess of 3																																																																																																																																																																																															
1203	290	2203	145	Multiple dependent claim																																																																																																																																																																																															
1204	86	2204	43	Reissue independent claims over original patent																																																																																																																																																																																															
1205	18	2205	9	Reissue claims in excess of 20 and over original patent																																																																																																																																																																																															
SUBTOTAL (2) (\$)																																																																																																																																																																																																			

SUBMITTED BY				Complete (if applicable)	
Typed or Printed Name		Bruce H. Bernstein		Reg. Number	
Signature		<i>Will. E. Lynd</i>		29,027	
Date		12-31-03		Deposit Account User ID	